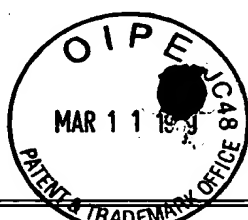




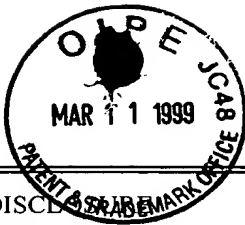
INFORMATION DISCLOSURE CITATION PTO-1449		ATTY. DOCKET NO. 16842-750		SERIAL NO. 09/207,170			
		APPLICANT Livak et al.					
		FILING DATE December 7, 1998		GROUP 1643 1655			
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
M	5,491,063	2-13-96	Fisher et al.	435	6	9-1-94	
	4,220,450	9-2-80	Maggio	23	230 B	4-5-78	
	5,332,659	7-26-94	Kidwell	435	6	1-15-93	
M	5,210,015	5-11-93	Gelfand et al.	435	6	8-6-90	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
M	WO 90/03446	05/04/90	PCT	C12Q	1/68		
M	WO 92/02638	02/20/92	PCT	C12Q	1/68		
M	WO 93/13224	08/07/93	PCT	C12Q	1/68		
M	WO 95/03429	02/02/95	PCT	C12Q	1/68		
	0 229 943 A2	29/07/87	Europe	C12Q	1/68		
	0 232 967 A3	09/01/87	Europe	C12Q	1/68		
M	0 343 955 A3	29/11/89	Europe	C12Q	1/68		
M	0 523 557 A1	20/01/93	Europe	C12Q	1/68		
	0 601 889 A2	15/06/94	Europe	C12Q	1/68		
M	5-123195	10/30/91	Japan	C12Q	1/68		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Roche Inventor Disclosure (disclosed to Applied Biosystems prior to November 1994)						
M	Ju, Jingyue et al., "Design and Synthesis of Fluorescence Energy Transfer Dye-Labeled Primers and their Application for DNA Sequencing and Analysis", <i>Analytical Biochemistry</i> , Vol. 231, pp. 131-140 (1995).						
M	Database WPI, Sect. Ch, Wk. 8608 ⁸⁶⁰⁸ , Derwent Publ., Ltd., London, GB, January 1986.						
	K. J. Livak et al., "Oligonucleotides with Fluoresc. Dyes at Opp. Ends Provide a Quenched Probe System Useful for Detecting PCR Prod. and Nucleic Acid Hybrid.," <i>PCR Methods and Applications</i>, pgs. 357-362 (1995). Duplicate						
M	Z. Guo et al., "Direct Fluoresc. Analysis of Genetic Polymorph. by Hybrid. with Oligonucleotide Arrays on Glass Supports", <i>Nucleic Acids Research</i> , 1994, vol. 22, no. 24, pp. 5456-5465.						
EXAMINER			DATE CONSIDERED				
Jena Riley			7/23/99				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
M	S. Tyagi et al., "Molecular Beacons: Probes that Fluoresce upon Hybridization", Dept. of Molecular Genetics, Public Health Research Institute, New York, N. Y., August 25, 1995, 25 pages.						
M	Parkhurst et al., "Kinetic Studies by Fluorescence Resonance Energy Transfer Employing a Double-Labeled Oligonucleotide: Hybridization to the Oligonucleotide Complement and to Single-Stranded DNA", <i>Biochemistry</i> , Vol. 34, (1995), pp. 285-292.						
M	Mergny et al., "Fluorescent energy transfer as a probe for nucleic acid structures and sequences", <i>Nucleic Acids Research</i> , Vol. 22, pp. 920-928, (1994).						
M	Heller et al., "Fluorescent energy transfer oligonucleotide probes", Abstract 248, <i>Fed. Proc.</i> 46: 1968 (1987).						
M	Holland et al., "Detection of specific polymerase chain reaction product by utilizing the 5'→3' exonuclease activity of <i>Thermus aquaticus</i> DNA polymerase", <i>Proc. Natl. Acad. Sci.</i> , Vol. 88, pp. 7276-7280, (1991).						
M	Higuchi et al., "Kinetic PCR analysis: real-time monitoring of DNA amplification reactions", <i>Biotechnology</i> , Vol. 11, pp. 1026-1030, (1993).						
M	Higuchi et al., "Simultaneous amplification and detection of specific DNA sequences", <i>Biotechnology</i> , Vol. 10, pp. 413-417, (1992).						
M	Clegg, "Fluorescence resonance energy transfer and nucleic acids", <i>Methods of Enzymology</i> , Vol. 211, pp. 353-389, (1992).						
M	Wu et al., "Resonance energy transfer: methods and applications", <i>Anal. Biochem.</i> , Vol. 218, pp. 1-13 (1994).						
M	Stryer et al., "Energy transfer: a spectroscopic ruler", <i>Proc. Natl. Acad. Sci.</i> , Vol. 58, pp. 719-726 (1967).						
M	Clegg et al., "Observing the helical geometry of double-stranded DNA in solution by fluorescence resonance energy transfer", <i>Proc. Natl. Acad. Sci.</i> , Vol. 90, pp. 2994-2998 (1993).						
M	Cardullo et al., "Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer", <i>Proc. Natl. Acad. Sci.</i> , Vol. 85, pp. 8790-8794 (1988).						
EXAMINER			DATE CONSIDERED				
Jana Riley			7/23/99				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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		APPLICANT Livak et al.					
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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Lee et al., "Allelic discrimination by nick translation PCR with fluorogenic probes", <i>Nucleic Acids Research</i> , Vol. 21, pp. 3761-3766 (1993): <u>Duplicate</u>						
	Ozaki et al., "The estimation of distances between specific backbone-labeled sites in DNA using fluorescence resonance energy transfer", <i>Nucleic Acids Research</i> , Vol. 20, pp. 5205-5214 (1992).						
EXAMINER		DATE CONSIDERED					
		7/23/99					

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